

Perspectives on Importing Clean Coal Power into California

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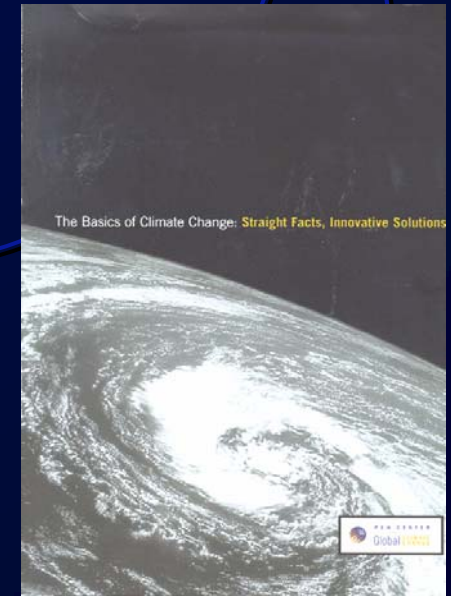
Pew Center on Global Climate Change

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**Committee Workshop on Clean Coal Technology Status and
Potential Issues for California Energy Policy**

The Pew Center

- Founded in May 1998
- Independent, Non-Profit, Non-Partisan
- Research (science and impacts, policy, economics, solutions)
- Education and Outreach
- Business Environmental Leadership Council



The Challenge:

GHG Emissions from Coal Power Imports

- GHG emissions from imported power
 - ~10% of California's GHG emissions
 - 50% of total emissions from electricity
 - Coal power imports in 2004
 - 9% of gross system power
 - 50% of imported power
- Addressing GHG emissions requires addressing imported coal power

Drivers for Low-Carbon Coal Power

- **California Imports**

- State emission targets
- CPUC carbon adder

- **Western Exports**

- Clean coal technology development
- Federal policies and incentives
- Polygen applications

- **Co-benefits**

- Criteria pollutants, risk management, water

Relevant State Experience

- Regional Greenhouse Gas Initiative
- New Hampshire 4P legislation
- Massachusetts power plant legislation
- OR and WA CO₂ offset standards
- Coal technology initiatives

Policy Options

- Emissions portfolio standard
 - Plant performance standards
 - Cap-and-trade on LSEs
 - Mandatory carbon offsets
 - Regional technology initiatives
- Clear policy with technology support

Technology Development Options

- Coal RD&D
 - Advanced coal
 - Carbon separation, capture and sequestration demonstration projects
 - Plant efficiency
- Take advantage of federal incentives
- Public/private partnerships

Barriers and Solutions: IGCC with CCS

Barriers

- **First-mover risk**
- **Regulatory uncertainty**
- **Public acceptance of sequestration**

Solutions

- **Support IGCC and CCS demonstration**
- **Design regulatory regime/permitting**
- **Public education**

Conclusion

- Coal is key to addressing GHG emissions
- The west can lead on low-carbon coal technology
- Requires cooperation between California and western electricity exporters
- Mutual benefit

+ For More Information

+ www.pewclimate.org

+ States web resources

+ http://www.pewclimate.org/what_s_being_done/in_the_states/index.cfm